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LIECHNOLOGY IN A US CRIMINAL JUSTICE SETTING FIELD EVALUATION OF EFFECTIVENESS OF VSA (VOICE STRESS ANALYSIS)

This research paper represents 18-years of data evaluating the use of the VSA technology for the detection of stress associated with possible deception. Using a combinatorial approach of VSA and a standardized questioning process, an expert obtained the results of stress detection associated with criminal activities, which are proven in 95% of cases. On the other hand, there were no cases when a confession was obtained in the absence of stress. In particular, the most considerable stress levels were detected during the investigation of murder cases, grand larceny and sexual crimes. When the VSA technology was used for diagnostic purposes to predict deception, positive results were obtained in approximately 95% of the cases. Additionally, a strong, indirect relationship (approximately 94%) was discerned between jeopardy (crime consequences) and confession rates among guilty discerned between jeopardy (crime consequences) and confession rates among guilty

suspects. The implications of the findings for the suitability of VSA as a deception detection tool in

1. Introduction

the field are discussed.

This retrospective analysis assesses 18-years of actual criminal cases, all of which involved Voice Stress Analysis (VSA) examinations conducted by an experienced criminologist. The purpose of this analysis is to evaluate the efficacy and accuracy of VSA technology as a decision support tool

for the detection of stress associated with deception during criminal investigations.

It is known that the encoding of physical stress in the human voice is highly influenced by an increase in respiration, which heightens the sub-glottal pressure during phonation. The distance of speech between breaths is diminished, while the articulation rate is affected. Stress changes the larynx muscle activity and vocal folds, which subsequently modifies the air velocity through glottis and sound frequency (i.e., as vocal folds increase in tension, the frequency increases). Stress also affects the activity of other muscles like tongue, jaw and lips, which shape the resonant cavities and alter speech

Olaf Lippold's mid-20th century discovery of the 8-12 Hz range physiological tremor in human muscles led to additional research concerning the relationship between psychological stress and the human voice, for the purpose of developing a technology capable of accurately detecting vocal stress

The first commercially available VSA system was developed through experimentation by Allan D. Bell, Jr., who discerned which voice characteristics were most likely to show stressed responses. Bell's early studies focused on Frequency-Modulated infrasonic modulations (< 20Hz), which are below the level of human audibility. According to Bell, the unstressed muscle allows a greater variation in the Frequency-Modulated intonation, which becomes flatter as stress increases. This flattening effect could be graphically displayed as VSA output. In fact, VSA output charts show that the normal unstressed voice started with a gradual buildup from initial low energy to full force. Conversely, the stressed utterance usually started with an initial burst of energy and diminished without displaying the Frequency Modulation that characterizes the unstressed pattern. Thus, the stressed utterance resulted in a much flatter line in the graphic output. Based on his findings, Bell stressed utterance resulted in a much flatter line in the graphic output. Based on his findings, Bell produced a VSA device that could detect, measure, and graph the infrasonic wave forms produced by

the human voice [1 - 2].

levels [6], [12].

production [7].

In theory and practice, VSA is designed to identify the phases in speech where the voice displays discernible signs of being under constraining influence. Once the affected utterances are isolated, trained VSA examiners investigate the source for such stress, and question the subject (i.e. the speaker) with a goal of establishing the truth concerning a specific matter. Thus, VSA is categorized as

VSA examinations are conducted using established questioning protocols to determine the

stress or lack thereof in the human voice. Stress, or the lack thereof, can be identified by a trained VSA examiner to assist in determining truthfulness or deception of the examinee's responses to direct questions. This is accomplished by analyzing and quantifying the characteristic shapes of the voice graphs (e.g., amplitude, cyclic changes, leading edge slopes, and square waveform shapes or blocking)

Critics of VSA have debated this technology's accuracy and dependence upon output in coding data is reflective of the algorithms used and the effectiveness of the examiners. Some researchers have claimed that vocal changes cannot be detected as a result of stress, while others have asserted that VSA and its competitors are insensitive to stress and deception, both in the laboratory and field [8].

Advocates of VSA understand its limitations, but they also recognize its promise, as the technology has improved considerably over time. VSA mathematical models are continually being developed and optimized. For instance, Adaptive Empirical Mode Decomposition (AEMD) differentiates between low to medium stress levels in the human voice by decomposing nonlinear, non-stationary signals into the sum of a series of stationary signals, which allows specific fluctuations in

frequency and amplitude to be detected in real-time [18].

produced by the examinee.

a truth verification technology.

Additionally, proponents state that even with the use of well-established "staple" algorithms (e.g., Fast Fourier Transform; the McQuiston-Ford Algorithm) VSA is an effective technology for the investigation and detection of human stress associated with deception [9]. As a result of the McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human McQuiston-Ford Algorithm used in several modern VSA systems, the recorded changes of the human

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analyzed and quantified by trained VSA examiners. Further, today, such analyses can be accomplished automatically, by allocating percentages of stress for each voice pattern using standardized scoring

processes [16-17].

Gaining valid and verifiable information has long been a challenge for criminal investigators atriving to separate the guilty from the innocent. Many stress-detection technologies have proven to be cumbersome and time-consuming, culminating in questionable results [14]. On the other hand, technology-free investigative interviews and interrogations conducted by police have generally not attained confession rates exceeding 50% [11]. To date, researchers have overlooked a valuable benefit of VSA technology: in the hands of skilled professionals, VSA processes can support investigative assessments, which dramatically increase the rate of valid and legally acceptable confessions and admissions from suspects and other persons of interest to the criminal justice system.

The goal of this retrospective study was neither to disprove nor discredit older stress and deception detection technologies currently in use. Rather, analyses of the cases, conducted over an 18-year period, aimed to test the hypotheses relevant only to this particular technology; during criminal justice investigations, VSA can serve as a reliable decision support tool to help discriminate between deception and no deception; stress and confession rates are interdependent; and the level of jeopardy associated with specific crimes can affect the confession rates obtained from guilty individuals under

investigation.

2. Method

2.1 Case and Subject Representation

The original group of total case subjects (n > 3,000) tested over an 18-year period was culled for those that could be retrospectively studied, such that they met the following requirements: a confession had been a potential outcome (i.e., a crime had been committed in which the individual was implicated); there was no involvement with non-criminal statement veracity testing; no employment

clearance was involved; the case was not used as confirmation of witness testimony; and controlled testing had occurred (i.e., responses could be verified by the VSA process by means of structured re-

Following the excluded group, the cases that remained were (n=2,109). After these cases were numbered in consecutive order, the numbers were separated and pooled. The concealed, individual numbers were then randomly selected in single-blind fashion, before being disclosed to the primary researcher for analysis and review. From this final set of cases (n=236), there were (n=329) possible confession outcomes. Not included in the confession rate were those confessions in which suspects admitted their guilt to a wrongdoing other than the crime(s) specifically addressed during the

The subjects (n=279) within this study ranged in age, from 5 to 74, 84% (n=234) were male, and 16% (n=45) were female. Their representation included criminals, defendants, suspects, persons of interest, and court-ordered mandates (e.g., child protective situations), in total n=259, and alleged victims n=20. Within the former group, organized/contract criminals were also included (n=6). A wide spectrum of people was examined from those with no criminal history, to those with previous arrest and/or conviction records, as well as professional criminals; wealthy individuals; well-educated professionals; public officials; indigents; and those found to be below normal intelligence. The number

Among the different crime types (n=29) in this study: murder 18.2% (n=60), rape 15.8% (n=52), grand larceny 14.9% (n=49), burglary 9.1% (n=30), sexual abuse 8.8% (n=29), larceny 4.6% (n=15), arson 5.8% (n=19), assault 4.9% (n=16), and robbery 3.3% (n=11) were the crimes mostly heavily represented. The crimes that were moderately represented included sodomy 1.5% (n=5), child abuse 1.5% (n=5), armed robbery 1.5% (n=5), misconduct 1.2% (n=4), criminal mischief 0.9% (n=3), weapons violations 0.9% (n=3), narcotics 0.9% (n=3), fraud 0.9% (n=3), indecent assault 0.9% (n=3),

of crimes represented per case ranged from (n=1-3).

examination.

questioning).

bomb threats 0.6% (n=2), sexual contact 0.6% (n=2), and kidnapping 0.6% (n=2). The crimes that were of low representation (n=1) included manslaughter, coercion, attempted murder, attempted rape,

2.2 Interview Formatting and Modus Operandi

missing person, felony DWI, buying testimony, and perjury.

Ninety-one percent (91%) of the cases under study represented criminal investigations in which authorities had reached an impasse. In each case, the procedure used by the VSA examiner consisted of the following steps: receiving a briefing from the requesting agency, interview of the subject, questioning, re-questioning, final evaluation by VSA, and post-examination interview if required.

Each subject within the Confession Possibility List had been individually interviewed by the VSA examiner, who had two goals in mind: to exonerate the innocent/identify the guilty and to obtain legally valid and independently verifiable confessions from those individuals who were unable to clear the VSA process. Each interview had been conducted according to a standard protocol in which the wording of the interview, but not the method, was adapted on-site to each specific case. This procedure consisted of six steps, which are outlined in Table 1.

If a confession was made by the subject, the examiner asked the subject to further support his/her confession by verifying specific details of the events under investigation or by providing additional details concerning the events under investigation. False confessions are by no means unknown in law enforcement and legal circles, and it was imperative that the confessions be independently verified and validated [5]. This was accomplished by asking the subject to confirm evidence which had not been made public, and to provide a narration of the event. Any newly obtained information or case specific facts provided during a confession would be checked closely against all available evidence. Additionally, if a confession occurred, a written statement was also taken from the subject. A subsequent VSA examination was then conducted to validate the veracity of the written statement. At the conclusion of the VSA examination process, all findings and work

product were turned over to the requesting agency for their use as appropriate.

Table1: Six Steps of the Standard Procedure used for Interviews

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Step

NOTE: The only variability was the wording which was adapted to each case

2.3 Vocal Stress Detection System

The two commercially available VSA systems used for the cases under study employed proprietary versions of the McQuiston-Ford VSA Algorithm, which had been found to be accurate in previous research [13], [16]. These systems detect involuntary and inaudible frequency modulations in the 8-14 Hz range. By use of proprietary signal filtering and discrimination techniques, the systems

display the results as VSA graphs.

3. Results

3.1 Overall Stress and Confession Rates

Each crime category was analyzed for its indicated rates of stress/no stress and confession/no confession. In each of the cases reviewed here (n=236), inclusive of (n=329) confession possibilities, stress was indicated in 92% of the examinations (n=303), leaving 8% of the exams with a no-stress result (n=26). Confessions were obtained from 89% of the interviewees (n=292), leaving an overall 11% no-confession rate (n=37). Most notably, among all interviews conducted, where stress was

indicated, 96.4% resulted in suspects making self-incriminating confessions (Table 2).

busn	ε	0.001	6.0	0	0.0	0.0	ε	0.001	6.0	0	0.0	0.0
Varcotics	ε	0.001	6.0	0	0.0	0.0	ε	0.001	6.0	0	0.0	0.0
Weapons	ε	0.001	6.0	0	0.0	0.0	ε	0.001	6.0	0	0.0	0.0
Criminal Mischief	٤	100.0	6.0	0	0.0	0.0	ε	0.001	6.0	0	0.0	0.0
Misconduct	ħ	0.001	2.1	0	0.0	0.0	Þ	0.001	2.1	0	0.0	0.0
Armed Roppery	S	0.001	¿.I	0	0.0	0.0	S	0.001	S.1	0	0.0	0.0
Child Abuse	S	0.001	2.1	0	0.0	0.0	ş	0.001	2.1	0	0.0	0.0
Ymobos	5	100.0	2,1	0	0.0	0.0	S	100.0	1.5	0	0.0	0.0
Коррегу	10	6'06	0.£	I	€.0	€.0	01	6.06	0.£	I	1.9	€.0
ilurzsA	91	0.001	6.4	0	0.0	0.0	91	0.001	6'7	0	0.0	0.0
Arson	61	0.001	8.2	0	0.0	0.0	81	<i>1.</i> 49	5.8	1	5.3	£.0
Гатсепу	SI	0.001	9.4	0	0.0	0.0	SI	100.0	9.4	0	0.0	0.0
Sexual Abuse	87	9.96	<i>c</i> .8	I	3.4	€.0	87	9.36	2.8	I	4.8	£.0
Burglary	30	0.001	1,9	0	0.0	0.0	30	100.0	1.6	0	0.0	0.0
Сгапа Сагсепу	30	2.13	1.6	61	8.85	8.2	30	7.13	1.6	61	8.85	8.8
Каре	75	0.001	8.21	0	0.0	0.0	IS	1,86	5.21	ı	6.1	€.0
Murder	95	£.£6	0.71	Þ	7.9	1.2	817	0.08	14.6	17	0.02	9.£
		(%)	(%)		(%)	(%)		(%)	(%)		(%)	(%)
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Table 2: Breakdown of 329 Interview Rates of Stress and Confesstion

NOTE: Confessions Obtained when Stress Indicated = 292/303 = 96.4%

lajoj 10 %	76			8			8.88			11		
JATOT	505			97			767			75		
Perjury	I	0.001	£.0	0	0.0	0.0	ī	0.001	€.0	0	0.0	0.0
Buying Testimony	I	0.001	٤.0	0	0.0	0.0	I	0.001	€.0	0	0.0	0.0
Felony DWI	ı	0.001	6.0	0	0.0	0.0	1	0.001	€.0	0	0.0	0.0
mozra¶ gnizziM	0	0.0	0.0	1	6.0	£.0	0	0.0	0.0	1	.001	6.0
Attempted Rape	I	0.001	€.0	0	0.0	0.0	1	0.001	€.0	0	0.0	0.0
Attempted murder.	-1-	-0.001	_£.0	0	-0.0	0.0	-1-	-0.001	£.0_	0-	0.0	0.0
Coercion	I	0.001	£.0	0	0.0	0.0	I	0.001	€.0	0	0.0	0.0
Manslaughter	I	0.001	€.0	0	0.0	0.0	1	0.001	£.0	0	0.0	0.0
Kidnapping	7	0.001	9.0	0	0.0	0.0	1	0.02	6.0	I	0.02	£.0
Sexual Contact	7	0.001	9.0	0	0.0	0.0	τ	0.001	9.0	0	0.0	0.0
Bomb Threats	z	100.0	9.0	0	0.0	0.0	7	0.001	9.0	0	0.0	0.0
iluseent Assault	ε	0.001	6.0	0	0.0	0.0	3	100.0	6.0	0	0.0	0.0

To determine the one-tailed probabilities of this study's hypo-geometric distributions between stress/no stress and confession/no confession rates, the Fisher's Exact Test was carried out within each crime category and among pooled data. The analysis revealed significant deviations from the null hypothesis in the crime categories of murder (p=0.001, FET), grand larceny (p=0.0001, FET), sexual abuse (p=0.0345, FET), and for pooled data in other crime categories (p=0.001, FET).

Within the crime category of grand larceny, one particular case involved n=20 suspects. Of the latter, n=19 were cleared by VSA testing (i.e., no stress indicated), whereas n=1 resulted in a stress indicated determination. A confession was obtained from the one subject who displayed stress. The Binomial Probability of having 20 successful evaluations in this case alone was found to be: b(x; n, P) = $9.537e^{-7}$ (20; 20, 0.5), with the mean of the distribution $\mu_x=10$, the variance $\sigma^2_x=5$ and the standard

Therefore, among the categories of murder, grand larceny, and sexual abuse, and for the study as a whole, the results revealed the probability was significantly superior to chance, and the variables

3.3 Accuracy and Efficacy of the VSA Test in the Field

were interdependent.

deviation $\sigma_x = 2.236$.

As a decision support tool, based on the data extracted (n=329) from this field study, the accuracy and efficacy of the VSA were evaluated. Calculations were based on: Prior Odds (11.048), Likelihood Ratio (27.027), Posterior Odds (298.6), and Posterior Probability (0.9967). The result revealed that a population was tested where 91.7% (n=302) of the participants were deceptive. Of those tested who were deceptive, 100% had a positive result. When a positive result was obtained, there was a PPV = 99.67% chance that the participant was deceptive, leaving a 0.33% chance of a false positive result. When a negative result was obtained, there was a NPV = 100% chance that the

participant was not deceptive, leaving no chance of a false negative result.

3.4 Correlating Confessions of the Guilty With Consequences of Crime

Confessions among the guilty were grouped in one of three categories, according to the severity of typical sentencing for the crime committed (Table 3). The number of guilty found for each crime was pooled according to rating category, such that the total for each category was as follows: n=53 (Rating 3), n=62 (Rating 2) and n=64 (Rating 1). The number of confessions that ensued in each crime category was also pooled, such that the number (and % among guilty) in each category was as follows: n=47 (88.68%) in Rating 3, n=61 (98.4%) in Rating 2, and n=64 (100%) in Rating 1. When correlating crime consequence ratings with percent of confessions among the guilty, the Pearson's Coefficient was found to be n=600. (n=601), indicating a very strong, indirect relationship (Table 3). Only categories were considered and analyzed where the sourcing guidelines were well-

Table 3: Confessions of Guilty Correlated with Crime Consequences

burglary, assault, fraud, larceny	(%0:001) +9	7 9	I	wol	< 5 years
kidnapping, sex abuse, arson, manslaughter, weapon, robbery	(%4.89) 13	79	7	muibəm	5-20 years
murder	(%89.88) 74	53	٤	dgirl	20 years to life
Crime Types	Confession (%) "n"	Guilty "n"	Bating	Severity	Typical Sentence

NOTE: All categories in this particular analysis excluded alleged victims and contract criminals (see Results section). Crime Consequences (average sentencing) were extracted from reputable federal sourcing guidelines [3, 4, 15].

documented and regulated [3, 4, 15]. Contract criminals were excluded from this particular analysis, as this special type of offender is known to reject confessions, due to organized crime affiliations, etc.,

4. Discussion of Results

regardless of what their VSA results or the evidence indicate.

specific and unerring results.

This study's confession rate of 96.4% (when stress was indicated), is laudable in being much greater than the confession rates (50% or less), typically obtained as a result of traditional interview and interrogation procedures, and also notably exceeds the results achieved by other widely available truth verification technologies which, according to the US National Academy of Sciences, are prone to high false positive rates and significant inconclusive results [10, 14].

The 100% sensitivity and 96.3% specificity rates of this study imply that the VSA process can precisely and accurately discriminate stress from no stress in real life crime situations involving consequence and jeopardy, thus enabling the exoneration of the innocent. For 100% of the VSA examinations which resulted in No Stress Indicated (n=26, 7.9% of total examination pool), the individuals represented were exonerated from any wrongdoing based upon confessions obtained from any wrongdoing based upon confessions obtained from accurate rates of successful evaluations defied chance probabilities. As a key example, in the Grand accurate rates of successful evaluations defied chance probabilities. As a key example, in the Grand Larceny case with 20 suspects, 19 of the examinations resulted in No Stress Indicated, and only one resulted in Stress Indicated – which in turn resulted in a confession. The Bernoulli Probability of having had 20 successful evaluations out of 20 examinations was less than 1 in 1,000,000. If VSA were simply a prop to obtain confessions, it would have been virtually impossible to achieve such

Interestingly, a relevant portion of this retrospective analysis implies that there appears to be a strong, indirect relationship between crime consequence/jeopardy and confession rates. The correlation found ($r^2 = 0.88$, r = -.94) implies that guilty examinees were less likely to confess when the penal

ramifications (i.e., typical prison sentence) for the crime committed became more severe. This finding further demonstrates the efficacy VSA has when used in an experimentally realistic paradigm and underscores the ability of field researchers to discern trends and associations among "real-life" factors.

5. Implications and Conclusions

world criminal investigations.

This retrospective study provides compelling evidence that when VSA is utilized as an investigative decision support tool in accordance with required operating procedures, and standard VSA interviewing techniques are employed, elicited confessions from criminal suspects can strongly professionals to support the acquisition of court admissible criminal confessions at a rate superior to other legal interrogation methods currently employed by the criminal justice system. Ultimately, however, human skill is required to make VSA technology perform its most valuable investigative functions, to exonerate the innocent or to elicit valid and verifiable confessions from the guilty in real-

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Summary

The use of Voice Stress Analysis (VSA) technology in Criminal Justice Setting is considered. Practical evidence of the effectiveness of this technology for the investigation of various criminal

offenses is provided.

Verification Lechnology 18-Year Field Study Validates Computer Voice Stress Analyzer as Most|Accurate Truth

pressreleaseheadlines.com/18year-field-study-validates-computer-voice-stress-analyzer-accurate-truth|venfication-technology-218201

independent, peer-reviewed research validates accuracy of the CVSA

reşults of CVSA examinations. The CVSA is now used by close to 2,000 law enforcement agencies including major metropolitan agencies such as Atlanta, Nashville, Miami, Baltimore, and New Orleans as well as the U.S. Federal Courts. The California incorporating the FACT® scoring algorithm, which uses scientifically validated processes to reliably and precisely evaluate the digital version. The CVSA is the only Voice Stress Analyzer in the world with two US Patents and the only system worldwide The CVSA has been available to law enforcement agencies in the US since 1988, first as an analog device, and since 1997 in research, which has established voice technologies performed well for border security applications made by the system's manufacturer. The study's results are further bolstered by current US Government funded voice analysis Expertise reports the accuracy rate of the Computer Voice Stress Analyzer (CVSA®) is greater than 95%, an assertion long (NACVSA), a recently published research study in the 2012 annual edition of the scientific journal Criminalistics and Court _EWES. Del., May 6, 2014 /PRNewswire/ — According to the National Association of Computer Voice Stress Analysts

inconclusive results. Additionally, drugs don't affect it and it can be used in virtually any environmen Highway Patrol has used the CVSA for over 15 years and it is now the most widely used truth verification system in the US Other advantages of the CVSA are that, unlike the old polygraph, there are no known countermeasures to defeat it and it has no The 18-year field study was conducted by Professor James L. Chapman and titled "Long-Term Field Evaluation of Voice Stress

study's co-author, Marigo Stathis, a neuroscientist and research analyst, has been the primary or co-author of 27 published application of Voice Stress Analysis technologies. Recently deceased, Professor Chapman's career spanned over 40 years as a collected by the CVSA's manufacturer, US law enforcement and US military CVSA users have long supported such findings: between 20-45%, with even the most experienced police interviewers only achieving a 50-55% confession rate. Empirical data scientifically accepted statistical models, and by the 96.4% validated confession rate Professor Chapman attained during the accurately predict whether a person under investigation is being truthful or deceptive. The study's findings are supported by period the study's data were collected. The study's findings revealed the CVSA, when used as an investigative support tool, car Professor Chapman used the CVSA to conduct the research and the results achieved were highly consistent throughout the scientific articles and studies focusing on various topics related to the human brain and biology. criminologist. educator and researcher, during which he conducted more than 15,000 Voice Stress Analysis examinations. The Analysis In a North American Criminal Justice Setting." Professor Chapman was known as the world's foremost authority on the course of the 18-year study. According to current scientific research and meta-analyses, police confession rates worldwide vary

For further information on the NACVSA, email Diana

are planned for the future

however, this is the first independent and peer-reviewed scientific study to validate these data. Additional studies and research

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CVSA III NOW AVAILABLE

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Des 2018-07-27 - NITV v Dektor - Complaint.pdf

it previously contended that CVSA was considered an expensive prop "according to almost all

438 law enforcement types who bought it." 500

This statement is false as nearly 2,000 law enforcement agencies worldwide are

utilizing the CVSA system, including approximately 175 agencies in Florida alone

The Dektor website further states that: "CVSA, its training

and

chart analysis

techniques have not shown proven reliable accuracy better than about 50% in studies and crimes." (available at http://www.dektorpse.com/information/cvsa/ real

This statement is false. As explained above, a 2012 peer-reviewed and published

study of the CVSA showed its error rate to be less than 1%. Further, a 2007 U.S. Department of

Defense survey of law enforcement users of the CVSA found that approximately 86% of the

detecting stress respondents indicated they thought the CVSA was either "very" or "extremely" effective in Q/

Sent From:

Arthur Herring III

Arthur Herring III Tuesday, February 4, 2020 5:36 AM

Daniel DeSouza <ddesouza@desouzalaw.com>

James D'Loughy - Advisor Law PLLC (JDLOUGHY@advisorlaw.com); Denise Aguilar

RE: chapman study

questions such as the one below was during the case, but you were apparently too busy destroying e-mails, creating secret e-mail accounts, etc. to substantively participate. That said, you have been this question before and I have previously responded that neither I nor NITV has the contact information you're requesting. In fact, you were allowed extensive time during the evidentiary hearing on December 10, 2019 to argue your position, to testify yourself (which at first you refused to do), and to cross-examine NITV's witness (Charles Humble). You asked several questions to Mr. Humble himself with respect to the Chapman study and were told the same I previously conveyed to you – NITV does not have the contact information of the publisher and was not involved in the Extension of the Chapman study. experience severe/significant misconduct by you throughout the case.

The cause judgment has been entered, the case is over and there is no mechanism, basis, or requirement for you continuing to seek answers with respect to the substance of the case. The time for

Doc 15-1 Athough I certainly have no control over your actions, I would ask that you stop cluttering my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received answers to your my inbox with the same e-mails for which no response is needed. You've already received and you with the same e-mails for whith the same e-mails for which it is not your my inbox with th activity so that we don't need to pursue the matter any further by filing a motion for contempt Pmpliance with the permanent injunction that has been entered against you (which you previously stated in writing (in your filings in the lawsuit) that you would not comply with and that you would continue sending the e-mails to law enforcement/government agencies that you've been ordered to stop. Again, I have no control over your actions, but I would hope you have ceased that

Daniel DeSouza

3111 N. University Drive | Suite 301 | Coral Springs, FL 33065 (Mailing Address) 101 NE Third Avenue | Suite 1500 | Fort Lauderdale, FL 33301 DeSouza Law, P.A

954.603.1340 (affice) | 954.551.5320 (mabile) idesouza@desouzalaw.com | www.desouzalaw.com

Sent: Monday, February 3, 2020 11:04 PM To: Daniel DeSouza <ddesouza@desouzalaw.com> From: Arthur Herring III <admin@dektorpse.com>

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Desouza Law, P.A.

Today, please let me know your position on these 2 items. I'd rather submit a joint order, but I'm happy to submit competing orders with an explanation as to the differences. I want to submit the order(s) by end of day today.

part of the review.

Here's the problem with the "non-relevant, personal materials" — you're obligated to give me a privilege log of each document withheld from us. We're talking about a laptop hard drive with years of your client's musings. Is he going to pay you to draft a privilege log of tens of thousands of items within the span of a week? You can insist on it, but i'm going to hold your feet to the fire and require you to specifically identify every document you're withholding (date, author, recipient, subject, basis for withholding, etc.). That doesn't seem like a particulated. And your client obviously your client's money, but that would be the requirement under the order you've circulated. And your client obviously your client's money, but that would be the requirement under the order you've circulated. And your client obviously can't be the one making the judgment call on what is personal/non-relevant given that his game playing is what got us can't be first place. So that means you being required to put eyes on every document and every e-mail collected as

I can't agree in advance that all hardware remain on premises. Nobody knows the condition of the damaged laptop hard drive or whether it can be imaged on premises. I'm willing to agree that any hardware removed by the expert remains in the possession of the expert until returned to your client, but I'm not going to hamper the forensic review based on your client's paranoia. That's non-negotiable from my perspective.

\$cott,

Subject: RE: FORENSIC ANAYSIS

To: Scott Weliikoff <swellkoff@adwellgroup.com>, JAMES D'LOUGHY (JDLOUGHY@adwisorlaw.com>

Date: January 16, 2019 at 6:49:41 AM EST

From: Daniel DeSouza <a href="mailto:com/onespacesouzabas

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Case 9:18-cv-80994-DLB Document 147 Entered on FLSD Docket 11/21/2019 Page 1 of 2

IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF FLORIDA

Case No. 9:18-cv-80994-DLB

NITY FEDERAL SERVICES, LLC,

Plaintiff,

HERRING, III, DEKTOR and ARTHUR

"Motion") [D.E. 145], and states as follows:

Defendants.

TO MOTION TO DENY CLAIM OF DAMAGES PLAINTIFF'S MEMORANDUM IN OPPOSITION

Plaintiff NITV Federal Services, LLC ("Plaintiff") hereby files this memorandum in opposition to defendant Arthur Herring, III's ("Herring") Motion to Deny Claim of Damages (the

1. The Motion is the latest diatribe/attack piece from Herring. This time, Herring wedges an assault on Plaintiff's damages in the midst of his familiar personal insults/attacks and appears to argue that the Court should reduce or entirely disallow the damages being sought by

Plaintiff in its pending Motion for Default Final Judgment [D.E. 135].

other filings, the Motion is devoid of the requisite Local Rule 7.1(a)(3) certification (as Herring has never conferred with undersigned counsel on any of his multitude of motions). Second, and more importantly, the Motion is essentially a rehash of Herring's Objection to Plaintiff's Final Default Judgment and Permanent Injunction Against Defendants [D.E. 138]. Plaintiff has already responded fully to Herring's arguments stated therein in Plaintiff's reply memorandum in support

The Motion is improper and does not merit a response. First, as with Herring's

Case 9:18-cv-80994-DLB Document 147 Entered on FLSD Docket 11/21/2019 Page 2 of 2

of its default judgment motion [D.E. 140]. In the interest of judicial economy, no further

substantive response to Herring's ramblings is necessary.

WHEREFORE, Plaintiff respectfully requests that the Court enter an Order denying the

Motion and for such further relief as the Court deems proper.

Respectfully submitted,

DESOUZA LAW, P.A. 101 ME Third Avenue Suite 1500

Fort Lauderdale, FL 33301 Telephone: (954) 603-1340 Desouza@desouzalaw.com

By: /s/ Daniel DeSouza, Esq.
Daniel DeSouza, Esq.
Florida Bar No.: 19291

ADVISORLAW PLLC Suite 204

Respectfully-submitted-

Palm Beach Gardens, FL 33410 Telephone: (561) 622-7788 Jdloughy@advisorjaw.com

By:/s/ James D'Loughy, Esq. Florida Bar No: 052700

CERTIFICATE OF SERVICE

I hereby certify that on November 21, 2019, I electronically filed the foregoing document with the Clerk of the Court using CM/ECF, which will electronically serve all counsel of record. I further certify that on November 21, 2019, I served the foregoing document via US Mail to Dektor Corporation and Arthur Herring, III, 400 E. Station Avenue, Coopersburg, PA 18036 and

via e-mail to admin@dektorpse.com.

/s/ Daniel DeSouza, Esq.

1 v 2847-2671-1484

Knowingly making defamatory statements in court records can be grounds for disbarment. Jack Thompson, a Misami lawyer who campaigned against violent video games and the group 2 Live Crew, was disbarred for professional misconduct that included making defamatory statements.

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From: Daniel DeSouza <ddesouza@desouzalaw.com>

Date: 6/1/19 2:35 PM (GMT-05:00)

To: Matt Vanderhoff <mvanderhoff@vanderson.net>

Cc: "lames D'Loughy - Advisor Law PLLC (JDLOUGHY@advisorlaw.com)" <JDLOUGHY@advisorlaw.com>

Subject: NITV - FOR SETTLEMENT PURPOSES ONLY

Mr. Vanderhoff,

This e-mail is sent pursuant to Fed. R. Civ. P. 408 and is for settlement purposes only.

I recognize and respect your prior e-mails asking that we not contact you further regarding this matter, but unfortunately this e-mail needs to be sent and it is my hope that you review it carefully (preferably with your own legal counsel). Through our review of the documents produced during the forensic investigation, conclusions reached regarding the 'damaged' hard drive, and positions taken by Mr. Herring concerning ownership of the PSE intellectual property, it is our intention to file a Complaint against both you and Vanderson Corporation in the United States District Court for the Southern District of Florida for aiding and abetting Mr. Herring in his tortious activities and for conspiring with him to engage in such activity. Please note I am not sending this e-mail to convince you that we are right or to argue the point with you back and forth – the bottom line is that our client has pushed for a lawsuit to be filed against argue the point with you back and forth – the bottom line is that our client has pushed for a lawsuit to be filed against you and your company for some time now and we agree with our client's position.

That said, I am not looking for my client to spend more money on this matter than necessary. My expectation is that the lawsuit with Mr. Herring will soon be over, with a monetary judgment against both Dektor and Herring and a permanent injunction entered. We are awaiting dismissal of Mr. Herring and Dektor's bankruptcy cases before we proceed in that manner. Given the above, we have 2 choices on how to proceed here. The first option is you ignore this e-mail (your right to do so) and we proceed with suing you in Florida as we did with Mr. Herring. The second option (which I sincerely hope you give serious thought) is that we enter into a settlement agreement wherein NITV will exchange mutual releases with you and Vanderson (with no money to be paid by you or judgment entered against you) in exchange for:

(a) the transfer of any ownership or use rights you may have in the PSE software/intellectual property/source codes etc. to NITV and (b) the agreed entry into a permanent injunction that prohibits you from further assisting Mr. Herring with his anti-NITV activities (with a liquidated damages provision in the event of a violation). We would need to agree on the language and other material terms, but that is the gist of what my client will accept in lieu of filling a lawsuit against you and seeking a money judgment therein. The above would also be contingent on the Court allowing entry of an injunction against you as a non-party — if not, we would probably need to file a lawsuit with agreement to immediately dismiss it approaches an injunction.

Again, I encourage you to review this with counsel, but understand that we are poised to move forward with the lawsuit if you are not willing to settle along the above terms. If you are interested, please let me know by Wednesday, June 5 at the latest. If I do not hear back from you by then, we will proceed with the lawsuit.

Doc 15-1 Filed 09/17/20 Entered 09/18/20 16:30:43 Desc Case 20-00180-mdc Exhibit exhibit 5a Page 25 of 35

DeSouza Law, P.A.

3111 N. University Drive | Suite 301 | Coral Springs, FL 33065 (Mailing Address)

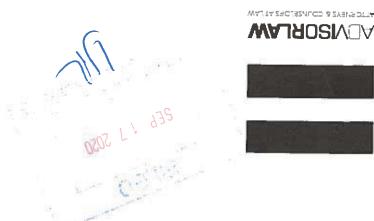
moɔ.welesuosəbw.com | moɔ.welesuosəb@esuosəbb

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101 NE Third Avenue | Suite 1500 | Fort Lauderdale, FL 33301

Daniel Desouza

91 +1917X7



June 17, 2019

Via E-mail: antipolygraph.org@protonmail.com

AntiPolygraph.org c/o G.W. Maschke Else Mauhslaan 39 2597 HA The Hague The Vetherlands

WE: ORDER AND PERMANENT INJUNCTION

NITV Federal Services, LLC. v. Dektor Corporation and Arthur Herring, III United States District Court, Southern District of Florida Case No. 9:18-cv-80994 ("Lawsuit")

Dear Mr. Maschke:

The undersigned represents MITV Federal Services, LLC and its President, Dr. Charles Humble. As the sole owner and publisher of Antipolygraph.org, we are writing you concerning the following twelve web links hosted through Antipolygraph.org:

- l. https://antipolygraph.org/blog/2019/05/19/federal-judge-orders-immediate-removal-of-website-critical-of-computer-voice-stress-analysis/
- 2. https://antipolygraph.org/blog/2018/07/31/nitv-hires-disgraced-ex-cop-jerry-w-crotty-ii-as-director-of-law-enforcement-operations/
- 3. https://antipolygraph.org/cgi-bin/forums/YaBB.pl?num=1263627833/3
- 4. https://antipolygraph.org/blog/tag/cvsa/
- 5. https://antipolygraph.org/blog/
- 6. https://antipolygraph.org/blog/2018/07/08/nailing-the-pretest-interview-a-presentation-by-skip-webb/
- 7. https://antipolygraph.org/blog/category/voice-stress/

Page 2 June 17, 2019 gro.nqsrgyloqiinA G.W. Maschke

8. https://antipolygraph.org/cgi-bin/forums/YaBB.pl?num=1298124260

9. https://antipolygraph.org/blog/2009/03/12/baker-dvsa-loses-a-customer/

10. https://antipolygraph.org/cgi-bin/forums/YaBB.pl?action=RSSboard&board=cysa

11. https://antipolygraph.org/blog/?s=cvsa

12. https://antipolygraph.org/blog/2019/06/06/nitv-threatens-competitors-it-consultant-with-

tederal-lawsuit

Order which is attached hereto. Humble. For a detailed description of the injunction, you should refer to pages 16 through 18 of the any false or disparaging remarks or statements about NITV, its CVSA product, or Dr. Charles publishing or posting of any website, blog, or other writing accessible via the internet which contains Permanent Injunction ("Order") entered in the above referenced case whereby it prohibits the The foregoing web links are being hosted in violation of the Court's May 17, 2019 Order and

custodial responsibilities to ensure compliance with the Order. by the Order to immediately forward a copy of this letter to all other persons or companies with and any other web links or materials that are governed under the Order. In addition, you are required As such, you are required to permanently remove the above referenced offending web links

within ten (10) days of your receipt of this letter. Last, you are also requested to reply to the undersigned to confirm compliance with the Order

ANTIPOLYGRAPH.ORG'S FAILURE TO FULLY COMPLY WITH THE ORDER

SANCTIONS AGAINST ANTIPOLYGRAPH.ORG. AND PERMANENT INJUNCTION MAY RESULT IN THE COURT IMPOSING SEVERE

in advance for your cooperation. We look forward to your written notification of compliance with the Court's Order. Thank you

Very truly yours,

James D'Loughy

Exhibit exhibit 5a Page 27 of 35

JDD/da

Enclosure: May 17, 2019 Order and Permanent Injunction

Filed 09/17/20 Entered 09/18/20 16:30:43 Desc

& DISTRICT OF COLUMBIA FLORIDA, GEORGIA ADMITTED TO PRACTICE:

Doc 15-1

Case 20-00180-mdc

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FLORIDA 33410, USA PALM BEACH GARDENS 2925 PGA BOULEVARD, SUITE 200



- MILL E---- Cult. L. 11 & C.
- VITY LIES! CVSA Was Not PSE in Vietnam War
 - DIG ALLA BUPE 20COXIS
- Politicians & Law Enforcement Refuse To Stop MITY Scam
- Alajor Law Enforcement Association Protects AIIV Scam
 - VITV Owner Lied About Inventing New Lie Detector
- Groveport Mayor & City Council Ignore Police Fake Lie Detector
 - Groveport Police Lied about Dektor
 - Primetime Investigation Prove MITV/CVSA Lies
 - ABC News Video Exposes MTV/CVSA Scam
- Humble Pretends National Company Wanted Him to Invent Their New Voice Lie Detector
 - VITV CEO Charles Humble Dedicates a Website to Himself
 - VITY Lies About DoD CVSA Study Ever Validated CVSA Humble Lied! NO DoD Funded Study Ever Validated CVSA

 - VITV Uses Fake DoD "Survey" to Sell CVSA
 - VITY Promotes Incompetent Disgraced Ex-cop as Director
 - VITV Hires Disgraced Ex-cop
- NEW: Disgusting Lies About Dektor & Owner Sent Twice by MITV to Law Enforcement
 - NEW: MITV Says in Court CVSA Not a Lie Detector, but MITV Website Says It Is
 - NEW: Humble Convicted in 1988 of Copyright Fraud
 - NEW: Humble Claims CVSA 98% Accurate Despite NO Studies Proving It
 - NEW: When CVSA Buvers Purchase CVSA, NITV Does NOT Let Them Own It
 - NEW: MITY Posts Groveport Police Lies About Dealing With Dektor
 - NEW: MITV's Humble Orred Huge Debt to Collection Business For 4 Years
 - NEW; Fake Humble "Doctor" Title by Fake University
 - NEW: Dektor's Lawyer Orders Dirk Bell to Stop Harassment, But Bell Ignores
 - NEW: "Crazy" Dirk Bell Sends Letter to Humble in 2004 About Herring
 - NEW: Major Article Reveals Many Lies About MITV & CVSA
 - NEW: MITV Threatens Dektor With Lawsuit 15 Years Ago
 - NEW: Library of Congress Says Journal of Chapman Study Does NOT Exist Proving CVSA Accuracy?
- NEW: How Could NITY Staff Past and Present of Former High Level Law Enforcement Sell and Train Cras With No Study
 - NEW: NITY Disgraces Great Seal of U.S. & Lies To Customers for Monetary Profit
 - NEW: MITV Humble Bought Fake Doctor Title From Fake University
 - NEW: MITY Owner Kane Promises CVSA Accuracy 98%
 - NEW: "Insane" Dirk Bells Lies & Threatens Dektor For Humble
 - NEW: Dirk Bells Lies About Dektor For MITV
 - VIII''s Fake CVSA Study Revealed
 - Eske XIIV CVSA Study Exposed

 - The XITV CVSA Scam

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- Ez CVSA Users Condemn CVSA & Training
- Humble Sanctioned by US Commerce Department for Export Violations
 - Newsmedia Quotes About MITI, CVSA & Humble
 - MITV Lets Dirk Bell Lie About Dektor & It's Owner
 - Dirk Bell Lies About Dektor
 - VITV Oves Massive Judgement
 - Charles Humble Admits NO Study Proves CVSA Accuracy.
 - Charles Humble Demands Promise Not To Sue Him
 - VITV Admits Never Inventing New Lie Detector
- SCAM! Computer Voice Stress Anglyzer (CVSA) Sold for S Years NEVER Had a Computer!
 - XITV Found Guilty by U.S. Government
 - NILA FIES: CASY Was Not PSE in Vietnam War
 - Did XITV Bribe SOCOM?

tindings to the public in 1970 of retired officers took their Army four decades ago, A pair research first conducted by the CVSA technology is based on

cheaper and easier. voice-stress testing, he said, getting confessions is faster, aminers to be available. With ams or wait days for state ex-\$120 for private polygraph expolice departments had to pay Before CVSA, Stewart said,

do the test. I'm guilty," down and say, 'You don't need to duestion. Then they break point of me asking the first deny doing it right up to the pie to see the light. ... They it works for me in getting peoworks," Stewart admitted. "But "I don't know if this thing

aotoetector. they are tacing a foolproof desuspects often crack when fold dozens of CVSA exams, said Stewart, who has administered Peoria police Detective Tom

Competes with polygraph

researchers," he said. university and pay for all the funding to do that, to take it to a "We never really had the

prison or the death penalty rogation subject is afraid of tions occur only when an intertions because stressful devinated under laboratory condiclaimed CVSA cannot be evaluintegrity machine's however, that no independent testing has demonstrated the acknowledged, Humble

"Inspired 8 #9 produced a confession rate of truth verification device, and accurate when utilized as a graph." Another concluded it is tween CVSA and the poly-"100 percent agreement be-One study ment seem to endorse the instruidentifies research works that The institute's literature

southern Arizona ni asinso gninisti sonegilletini at Fort Huachuca, the Army's amsagoad gainisat ai been aeed dale, to name a few. It also has Clendale, Gilbert and Avoniff's Office and police in Mesa, Safety, Maricopa County Sherthe state Department of Public In Arizona, it is employed by ter in Guantanamo Bay, Cuba,

ary's terrorism de ention cengence forces and at the milliused in Iraq by counterintelli-The device is purportedly

per machine, ers in recent years, at \$10,760 Computer Voice Stress Analyzment agencies have purchased 1,400 American law enforce-According to the institute,

Widespread popularity

"We believe the system is 100 percent accurate," Humble

check witnesses' veracity. suspicion. It also is used to might otherwise remain under clears innocent suspects who guys during investigations, and helps detectives target the bad said voice-stress technology Institute for Truth Verification, the business known as National and chief executive officer of Charles Humble, chairman

across the country. has solved hundreds of crimes than a polygraph machine, and its device is more accurate company behind CVSA claims Despite those critiques, the

vestigative toolboxes," on rieds of restre solov gnibbs veat to agencies considering technology should provide a cafor the current voice stressnot stress... The poor validity ever the CVSA may record, it is Chiefs of Police found: "What-Association **Innoilement** And a report done for the In-

Втарћ тасћівеs device an alternative to polyentific basis" to consider the cluded there is "little or no scivoice-stress studies and con-Academy of Sciences reviewed Two years ago, the National

better than the chance level." results" and "no examiner did that CVSA produced "dismai Polygraph Institute concluded The Department of Defense

screen recruits. they don't use the machine for in sassects and assess witnesses, cies are using it to interrogate creasingly more police agentruth from lies. And, while inwhen it comes to separating strument to be dubious, at best,

> Continued from A1 CASY



See CVSA Page Al4

have consistently found the in-Yet, independent experts

turer says. ware program, the manufaccharted by the device's softors" in the voice that are, cause stressful "micro-tremthe larynx. Deceptive answers produced by muscles around edly measures FM radio waves Analyzer, or CVSA, purport-The Computer Voice Stress

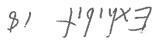
innocent suspects to make false confessions, title serutiny and may prompt vice does not stand up to scieneven though experts say the detor for criminal investigations on a voice-measuring lie detecforcement agencies are relying At least 20 Arrizona law en-

> THE ARIZONA REPUBLIC By Dennis Wagner

lie detector VOICE-STI'ESS rage over Arguments

LAW ENFORCEMENT

Arizona Republic 10/10/05



le-detector case

BY JOHN KETZENBERGER

BY JOHN KETZENBERGER

Two subsidiaries of Rock Island Refinorm Corp. and several individuals were lound guilty of copyright infringement in a case that stems from administering written of the case of th

and Gary L. Nelson, bounders, nearly contrological-stress examiners, nearly 501,800 for copying a written examination

On Schological-stress examiners, nearly 120 h, 800 for copying a written examination of the copying a written examination

do Reaume for copying and using the writmen test without permission from the aumors, Henry J. and Ann Reaume. The
mainder of the judgment covers costs
the automey's fees.

O'The Reaumes were hired in July 1979 by
conted Oil to conduct voice-stress evaluauons on prospective service-station em-

NSID

. . . .

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trademark protection in 1979. ASSIST, which received copyright and chased several hundred copies of a written ployees. United Oil subsequently purlest developed by the Reaumes called

to court documents, at some point between those suspected of specific acts. According employees, those seeking promotions and duct voice-stress exams on prospective Humble to replace the Reaumes and con-1980 and 1983, United VP Jones gave In June 1980, United Oil hired Charles

customized to United's specifications, to use in conjunction with the voice tests. Humble several copies of the ASSIST test, STOREN STINCTYEMBER 6.. 1988 - INDIANAPOLIS BUSINESS JOURNAL! 3/

two years, according to the court's findcopies of invoices to United for the same same time. Humble destroyed all of his business records for 1982 and 1983. At the because United Oil destroyed all of its how many times Humble used the test honesty criteria. It is unclear, however, applicants based on theft, drug use and the test had "limited value" in screening September 1985, when he concluded that Humble used the ASSIST test until

viously occurred, and further copying and outside Humble's office, where it had preof numerous service stations meant testing Marketing merged. The resulting addition beginning in 1983, when United and R.I. Widespread copying of the test occurred

United Oil...(conducted

prospective employees. voice-stress exams on

couple. including another that was a client of th ASSIST test to two other oil companies student of Humble's, offered to sell th Reaumes in 1985, when Nelson, a forme The copying was discovered by th

ing and Jones were dismissed last August. Reaumes against United Oil, R.I. Market. mark infringement brought by the practices, unfair competition and tradeshortly after they filed suit in Octobe plus costs was rejected by the Reaume 1985. Additional claims of unlawful track An out-of-court settlement of \$2,011



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MILA, a Kesbouse To Dektor Flyer

false and misleading information that you should be aware of PA, concerning voice stress analysis and have requested a response. Unfortunately, the flyers contain Quite a few law enforcement agencies have received flyers from a company called Dektor, Lansdale,

has a history of attempting to discredit the CVSA, MITV, and the MITV's founder, Dr. Humble. Lansdale P.D. does not use Herring's PSE, they use the CVSA. It is also unfortunate that Herring few, if any, law enforcement agencies. In fact, Herring operates out of Lansdale, PA, and the The voice stress analyzer (PSE) that Arthur Herring, a private investigator, is selling is used by very

Additionally, many elements of the federal government use the CVSA, not Herring's PSE. the Air Force Laboratory, the University of Florida and at the University of Oklahoma. accepted voice attess analyzer, the CVSA, not Herring's PSE. These studies are being conducted at analysis as a truth verification device in three separate studies, they chose the most widely used and It is also interesting to note that when the federal government recently decided to rest voice stress

has neither. trademark on Voice Stress Analysis' and 'Filter-Sean.' A check of the trademarks shows that he Likewise, his voice stress analyzer is not the original PSE. Herring's literature claims to have a the owner passed away, Herring started his own voice stress analysis company and named it Dektor. technology and due to the fierce attacks by the polygraphers, they filed bankruptcy in 1984. After (PSE), back in the 70's. However, because the owners did not keep up with the advances in The original company named Dektor was the manufacturer of the Psychological Stress Evaluator

displays only one response at a time; response through a laptop computer (not real-time analysis). It also appears that the computer stress analyzer that still requires the examiner to tape record the interview and then run each From his literature, it appears that the system that Herring is trying to sell is a very primitive voice

re-certification courses for a very nominal fee, not the "tens of thousands of dollars" that Herring Additionally, examiners trained by the NITV may re-certify at any of the four regional associations' term success of conducting examinations and to not require it could be considered irresponsible. is worth his or her salt will tell you that continuing education/re-certification is essential to the long-Herring touts the fact that he requires MO re-certification/continuing education. Any examiner that

are. Herring does not. lists all of our users on our Web site so that anyone may call to check how satisfied our customers Herring also claims that imitators (anyone but Herring) use "Compensated" testimonials. The NITV

the interrogators at GTMO use the CVSA exclusively, not the PSE. You may also want to check CVSA (his answer should be interesting). You may also want to ask him why the US Milliary and there are few, if any, law enforcement agencies using it and there are more than 1,400 using the In conclusion, you may want to ask Herring why, after having the PSE on the market since 1970,

Herring's credentials to teach law enforcement personnel.

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Law Enforcement Alert

Recently, a number of 'new' voice stress analysis devices were introduced into the market with claims such as being 'the DMA of thought'. The truth turns out to be that these are nothing more than old, failed van't that have been repaided in an attempt to capitalize on the huge vas market created by the MITV's Computer Voice Stress Analyzer (CVSA'N). Although they pass out specious 'studies' conducted by polygraphers that claim that the CVSA decean't work, they fail to explain why more than 1,400 law enforcement and federal agencies, including the U.S. Military, are now utilizing it.

The Truster (LVA)

It has come to our attention that the manufacturers of the Truster have now changed the named of their system (as have others in the past) and are calling it "Layered Voice Analysis" (LVA). Same technology, new players. These individuals have larneshed a massive ad campaign to introduce their hew, system in hopes of convincing unsuspecting departments or purchasing agents that they are getting the 'very latest in VSA technology. However, the developers have admitted that the LVAVIPI is the old Truster. In reality, they are getting the same system that declared that Bill Clinton was telling the truth when he said that he cidn't have sequal relations with Monica Lewinsky.

A year ago we paid \$149.00 for our Truster but they are available for as little as \$29.00 (Skymalfcom). However, if you want the Tatest version, it will cost you \$16,000.00, is sold by "V", and manufactured by Nemesyaco in letter (see our Web Site). None of the principles have any experience in truth verification. The developers claim that the Truster/LVA is "mapping the DNA of thought." In other words, it can read your mind. Nemesyaco also Truster/LVA is "mapping the DNA of thought." In other words, it can read your mind. Nemesyaco also manufactures the "Love Detector" (see their web site; www nemesyaco com),

Diogenes Lantern

Alfred F. Starewich, Vice President of The Diogenes Group, Criminal Justice Division, majurfacturers of the Diogenes Lantern, recently appeared for the defense in court in Sandualo, Ohio, Mr. Starewich was presented by the defense as a mitionally recognized expert in voice suces analysis. Mr. Starewich and reviewed a videorape of a defense as a mitionally recognized expert in voice suces analysis. Mr. Starewich and reviewed a videorape of a CVSA examination conducted by Lt. Jerrett of the Sandualcy P.D. on an individual that was suspected of murder. The suspect had failed two CVSA exams and subsequently confessed to the murder.

Mr. Starewich was hired by the defense to review and critique the videotape of the exam. Mr. Starewich was the report that criticized the teamsg techniques taught by the MITV and utilized by i.t. Jurrent as being so fatally flawed as its redering the exam invalid. The defense was attempting to utilize Mr. Starewich's teatmony as cause to suppress the confession, which could have caused the defendant to walk.

We were contacted by the Sandualcy P.D. just prior to the suppression hearing and requeleted to absist in countering. Mr. Starewich's report, we decided to explore the Expert Witness Qualification Credentials provided by Mr. Starewich.

OAD. Statewich claimed that he had been the Chief Examiner for the Detective Division of the Burlingame P.D. Utilizes the CVSA, we contacted that agency and work told by that department's chief examiner that aithough Mr. Statewich did conduct a

Executive Director

Capt. David Hughes (Ret.) West Palm Beach P.D. West Palm Beach, FL

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Chairman & CEO

Dr. Charles Humble

Crimmologist

West Paim Beach, FL

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Dr. James Vallely Forensic Psychologisi Jacksonville, FL

Dr. Thomas loseph Criminologist Sr. Louis, MO

Prof. James Chapman Criminologisi Elmira, NY

Chief William Withers New Whiteland, IV New Whiteland, IV

Senior Instructors

Lower Twp, NJ Lower Twp, NJ Lt. Michael McQuillan (Ret.)

D/Cmdr. Bob Martin (Ret.)

Prince George's Co. P.D. Landover, AID

D.C.m.dr. Ball Engelman (Ret.) Hamilton Co. S.D. Cincinnari, OH

Chief William Endler (Ret.) Syracuse, P.D Syracuse, IV

D. Glers Foster, M.A. Adanta P.D Atlanta, GA

Sorporate Pilot

Captain Takashi Yamazaki

Case 20-00180-mdc Doc 15-1 Filed 09/17/20 Entered 09/18/20 16:30:43 Exhibit exhibit 5a Page 35 of 35

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acquistation. For more information on the Computer Voice Stress Analyzer 28 or the contact numbers for any VSA on the market today. exame, it is impossible that year ask the tough questions and activities the system, the company, and the training prior to making the Before you or your department invents in a truth verification system and the training that is so critical to properly exchange successful

for this is the fact [7] the MITV commons the highest level of training standards and has developed an unquestioned reputation for military Special Operations and Intell gence Units in Iraq and has a permanent presence at GuantumanoBay. One of the many reasons caforcement examiners at 1.400 law enforcement and federal agencies throughout the U.S. The CVSA is now also deployed with handedly developed the crush venfication market utilizing voice arress analysis over the past stateon years with a lattle over 5,000 law develop the voice seress analysis market, we are seeing a repeat of this today. The National Institute For Truth Verification has single Just as floore were the "unitators" (CCS's Mark II, the Hagorh, LEA's Mark 5 and several others) when the original DSE started to

conducted a comprehensive analysis of the system. We determined that the literature describing the system was very misheading. a price to re-activate it. Each student that Baker trains must pay to be re-sentified each year. We acquired the Baker DVSA and be trainfed. Baken fails to tell prospective chemic than his software is set to 'time out' after one year and the citeta will have to negotiace similar to the Diogenes Lentern. Baker gives away the software in the form of a grant of the agency will pay \$1,500,00 per saucht to Gary Baker, a private investigator, left the employment of The Diogenes Group in 2002 and introduced his own VSA which is very

Baker DVSA

You may also find in interesting that the Landale P.D. (PA) willise the CVSA. sunce its introduction in 1971, you may write to Mt. Herring at 642 Cowpath Ed. Lanedale, PA 19446, for call him at 215-631-1448. To conduct your own investigation of the PSE and inquire as to how many law enforcement agencies are actually soll unlixing the PSE

including the U.S. Military, now unlixing the CVSA. He claims that any instrument other than the PEE is a frank. Mr. Herring agrees the fact that the PSE is now not generally used in law enforcement and that there are nearly 1,400 agencies.

emyland neotil soroV garziliza steet nodobials oil strusco. that is fring to you and your enaminers. If your examiners were not trained and cardified by Deldon, they are not able to perform However, what is very disturbing is that Mr. Herring claims in his literature that Your equipment must say PSE or you have a garlest

.e'Uf and-or-them add ment nonnumental & information the mid-to-late 7U's. Mr. Helring has recently acut out literature claiming that the PSE 4202 (analog - read, chart paper) is the "Worlds only proven avasent

beyond the old anning PSE

voice suces analysis. Unformusicly, Doktor declared Chapter 11 handrupter in the mid-80's and nevet recovered nor did they move private investigator. Arthur Herring III, located in Langale, PA. You may recall that Delacer is the company that organily developed The rights to prieduce and market the original Psychological Suress Evaluator and the correpany name Lieldor have been acquired by a

Dektor

175-228-277 to mark portray himself as an Expert Winness". For further juformention concerning Mr. Starewich or The Diogenes Group, you may contact reformations. Please return this information on your records in the event by. Starewich appears in your jurisdiction attempting to This was pur a cursory investigation of Mr. Starewich's background. A more thorough review would possibly reveal additional

the entire time. The university stated that they had no record of Mr. Starewich being Chief of Police. were tolld that the university has only had a police department for ten years and that the recently returned that held that per only had being that position for Mr. Statewich also stated the be was the Charlof Police of the St. Edwards University P.D. no Texas. We consecred that agency, and

* (min) esoniw for Conspiracy to Solicit Bodily Harm With A Deadly Weapon. (Mr. Starewich apparently failed to mention that on his Expert the San Jose P & and charged with Solicitation to Commit Murder. Mr Starwich was tried, convicted and served 3 years in prison. and certainly wise not the 'Chief Examiner' Additionally, shortly after he began conducting exams for that agency, he was arrested by number of PSE expansions for the department in the late 70%, he was naver a aworn officer (the chief made lam a Special Reserve)

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